

Department of Homeland Security
Administrative Record Support
MD 5100.1, Environmental Planning Program
Definition of Bioengineering

Bioengineering is the use of either native or proven vegetative species to put down roots and stabilize the soil along a water course. Branches, whips, cuttings, rooted cuttings, and stakes are examples of what may be used. Species such as willows, dogwoods, and poplars are used. Such materials can be collected locally or purchased from suppliers recommended by the local office of the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS). The use of such techniques is relatively inexpensive and highly preferable to mitigating the results of siltation caused by soil disturbing activities.